| Ref # | Hits | Search Query | DBs | Defa ult Oper ator | Plurals | Time Stamp |
|----------|---------------|---|--------------------|-----------------------------|---------|------------------|
| L1 | 1 | "5554854".pn. | US-PGPUB; USPAT | OR | ON | 2010/04/22 18:19 |
| L2 | 0 | L1 and ((extract\$4 near3 electrode) with (heater or heating) with (condensation near3 temperature)) | US-PGPUB; USPAT | OR | ON | 2010/04/22 18:23 |
| L3 | 0 | L1 and ((reactive adj1 gas) with clean\$4) and (remov\$4 with deposit with surface) | US-PGPUB; USPAT | OR | ON | 2010/04/22 18:24 |
| L4 | 1 | "7531819".pn. | US-PGPUB; USPAT | OR | ON | 2010/04/22 18:33 |
| L5 | 1 | L4 and ((reactive adj1 gas) with clean\$4) and (remov\$4 with deposit with surface) | US-PGPUB; USPAT | OR | ON | 2010/04/22 18:33 |
| L6 | 0 | L5 and ((extract\$4 near3 electrode) with (heater or heating) with (condensation near3 temperature)) | US-PGPUB; USPAT | OR | ON | 2010/04/22 18:34 |
| L7 | 0 | L5 and ((extract\$4 near3 electrode) with (activat\$4 or "on") with ((ioniz\$4 near4 deactivat\$4) or "off")) | US-PGPUB; USPAT | OR | ON | 2010/04/22 18:36 |
| L8 | 2 | L1 or L4 | US-PGPUB; USPAT | OR | ON | 2010/04/22 18:36 |
| L9 | 0 | L8 and ((extract\$4 near3 electrode) with (activat\$4 or "on") with ((ioniz\$4 near4 deactivat\$4) or "off")) | US-PGPUB; USPAT | OR | ON | 2010/04/22 18:37 |
| L10 | 6384 | (250/423R,424-427,431,489,492.21,492.3, 493.1).cds. | US-PGPUB; USPAT | OR | ON | 2010/04/22 18:37 |
| L11 | 2833 | (315/111.01-111.91).ccls. | US-PGPUB; USPAT | OR | ON | 2010/04/22 18:37 |
| L12 | 86 8 9 | L10 or L11 | US-PGPUB; USPAT | OR | ON | 2010/04/22 18:38 |
| L13 | 7 | L12 and ((reactive adj1 gas) with clean\$4) and (remov\$4 with deposit with surface) | US-PGPUB; USPAT | OR | ON | 2010/04/22 18:38 |
| L14 | 0 | L8 and ((reactive with clean\$4) with (activat\$4 or "on") with ((ioniz\$4 near4 deactivat\$4) or "off")) | US-PGPUB; USPAT | OR | ON | 2010/04/22 18:39 |
| L15 | 0 | L13 and ((reactive with clean\$4) with (activat\$4 or "on") with ((ioniz\$4 near4 deactivat\$4) or "off")) | US-PGPUB; USPAT | OR | ON | 2010/04/22 18:39 |
| L16 | 5 | L13 and ((extract\$4 near3 electrode) with (heater or heating) with (condensation near3 temperature)) | US-PGPUB; USPAT | OR | ON | 2010/04/22 18:40 |
| S4 | 1 | "20070241689".pn. | US-PGPUB; USPAT | OR | ON | 2008/02/28 16:38 |
| S5 | 4 | "20070210260".pn. or "20060272775".pn. or "20060272776".pn. or "20070108395". pn. | US-PGPUB; USPAT | OR | ON | 2008/02/28 16:16 |

| S6 | 2 | "20040000647".pn. or "6686595".pn. | US-PGPUB; USPAT | OR | ON | 2008/02/28 16:35 |
|------|------|--|--|----|----|------------------|
| S7 | 1 | S4 and ionization | US-PGPUB; USPAT | OR | ON | 2008/02/28 16:39 |
| S8 | 1 | S4 and ionized | US-PGPUB; USPAT | OR | ON | 2008/02/28 16:47 |
| S9 | 2 | "6452338".pn. or "6686595".pn. | US-PGPUB; USPAT | OR | ON | 2008/02/28 16:49 |
| S10 | 7 | S5 or S6 or S9 | US-PGPUB; USPAT | OR | ON | 2008/02/28 16:50 |
| S11 | 2 | "6288403".pn. or "6452338".pn. | US-PGPUB; USPAT | OR | ON | 2008/02/28 16:49 |
| S12 | 8 | S5 or S6 or S9 or S11 | US-PGPUB; USPAT | OR | ON | 2008/02/28 16:50 |
| S13 | 4 | S12 and ((ionization or ion) adj1 chamber) and (high adj1 voltage) and inlet and (extraction with aperture) and (vacuum adj1 (system or housing)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 08:46 |
| S14 | 2 | S12 and ((ionization or ion) adj1 chamber) and (high adj1 voltage) and inlet and (extraction with aperture) and (vacuum adj1 (system or housing)).clm. | US-PGPUB; USPAT | OR | ON | 2008/02/28 16:57 |
| S15 | 1 | S14 and ((reactive adj1 gas) with clean\$4). | US-PGPUB; USPAT | OR | ON | 2008/02/28 17:06 |
| S16 | 5116 | (250/423R,424-427,431,489,492.21,492.3, 493.1).cds. | US-PGPUB; USPAT | OR | ON | 2008/02/29 08:46 |
| S17 | 2517 | (315/111.01-111.91).ccls. | US-PGPUB; USPAT | OR | ON | 2008/02/29 08:46 |
| S18 | 7190 | S16 or S17 | US-PGPUB; USPAT | OR | ON | 2008/02/28 17:05 |
| S19 | 20 | S18 and ((ionization or ion) adj1 chamber) and (high adj1 voltage) and inlet and (extraction with aperture) and (vacuum adj1 (system or housing)) | US-PGPUB; USPAT | OR | ON | 2008/02/28 17:12 |
| S20 | 3 | S19 and ((reactive adj1 gas) with clean\$4) and (remov\$4 with deposit with surface) | US-PGPUB; USPAT | OR | ON | 2008/02/28 17:13 |
| \$21 | 31 | (ion adj1 source) and ((ionization or ion) adj1 chamber) and (high adj1 voltage) and inlet and (extraction with aperture) and (vacuum adj1 (system or housing)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/28 17:22 |
| S22 | 5 | S21 and ((reactive adj1 gas) with clean\$4) and (remov\$4 with deposit with surface) | US-PGPUB; USPAT | OR | ON | 2008/02/28 17:20 |
| S23 | 2 | S22 not S20 | US-PGPUB; USPAT | OR | ON | 2008/02/28 17:13 |

| | | LAST Scaron mistory | (| / | | |
|-------------|------|--|--|----|-----|------------------|
| S24 | 4 | (ion adj1 source) and ((ionization or ion) adj1 chamber) and (high adj1 voltage) and inlet and (extraction with aperture) and (vacuum adj1 (system or housing)).clm. | US-PGPUB | OR | ON | 2008/02/28 17:20 |
| S25 | 2 | S24 and ((reactive adj1 gas) with clean\$4) and (remov\$4 with deposit with surface). clm. | US-PGPUB; USPAT | OR | ON | 2008/02/28 17:22 |
| S26 | 0 | horsky-thomas.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/28 17:22 |
| S27 | 55 | horsky-thomas-n.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/28 17:22 |
| S28 | 9 | \$27 and (ion adj1 source) and ((ionization or ion) adj1 chamber) and (high adj1 voltage) and inlet and (extraction with aperture) and (vacuum adj1 (system or housing)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/28 17:22 |
| S29 | 2 | S28 and ((reactive adj1 gas) with clean\$4) and (remov\$4 with deposit with surface). clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/28 17:27 |
| S30 | 267 | (315/111.91).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/02/28 17:27 |
| S31 | 5116 | (250/423R,424-427,431,489,492.21,492.3, 493.1).cds. | US-PGPUB; USPAT | OR | ON | 2008/02/29 08:46 |
| S32 | 2517 | (315/111.01-111.91).ccls. | US-PGPUB; USPAT | OR | ON | 2008/02/29 08:46 |
| S33 | 7190 | S31 or S32 | US-PGPUB; USPAT | OR | ON | 2008/02/29 08:46 |
| S34 | 20 | S33 and ((ionization or ion) adj1 chamber) and (high adj1 voltage) and inlet and (extraction with aperture) and (vacuum adj1 (system or housing)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:58 |
| S 35 | 0 | S34 and (surface with contaminat\$4 with deposit\$4) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:54 |
| S36 | 6 | S34 and (contaminat\$4 with deposit\$4) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:31 |

| S37 | 14 | S34 not S36 | US-PGPUB; USPAT | OR | ON | 2008/02/29 08:57 |
|-----|-----|---|--------------------|----|----|------------------|
| S38 | 0 | S33 and (((vapor or gas) near31 generat\$4) with (disassociat\$4 or dissociat\$4) with (condens\$4 with surface)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:04 |
| S39 | 0 | S33 and (((vapor or gas) near3 generat\$4) with (disassociat\$4 or dissociat\$4) with (condens\$4 with surface)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:32 |
| S40 | 2 | \$33 and ((gas near3 generat\$4) with (focus\$3 near3 (electron adj1 beam))) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:32 |
| S41 | 249 | S33 and (plasma adj2 (chamber or generat\$4)) and (reactive adj1 gas) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:33 |
| S42 | 6 | S41 and ((borohydride with vapor\$5) or (decaborane or (octa adj2 decaborane))) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:35 |
| S43 | 0 | S33 and ((fluorine or halogen) with (disassociat\$4 or dissociat\$4) with (condens\$4 with surface)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:36 |
| S44 | 60 | S33 and ((fluorine or halogen) with (disassociat\$4 or dissociat\$4)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:13 |
| S45 | 18 | S44 and (reactive adj2 (gas or vapor)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:36 |
| S46 | 0 | S45 and (clean\$4 with surface with contaminat\$4 with condensat\$4) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:37 |
| S47 | 1 | S45 and (clean\$4 with surface with (contaminat\$4 or condensat\$4)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:15 |
| S48 | 2 | S44 and (clean\$4 with surface with (contaminat\$4 or condensat\$4)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:16 |
| S49 | 2 | S44 and (aluminum with surface with (contaminat\$4 or condensat\$4)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:38 |
| S50 | 10 | S44 and ((mass adj2 (analyzer or analysis)) with implant\$5) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:38 |
| S51 | 3 | S44 and (monitor\$4 with cleaning with (reactive adj1 gas)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:41 |
| S52 | 0 | S44 and ((end adj1 point) with detect\$4 with (chemical adj1 analysis)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:41 |
| S53 | 13 | S44 and (temperature with (detect\$4 or sens\$4)) and (heat\$4 with condensat\$4) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:42 |
| S54 | 21 | S44 and (implant\$5 with target) and (arsen\$4 or phosphorus or antimony or silicon or germanium) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:44 |
| S55 | 6 | S54 and (clean\$4 with surface) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:29 |

| S56 | 31 | ((ionization or ion) adj1 chamber) and (high adj1 voltage) and inlet and (extraction with aperture) and (vacuum adj1 (system or housing)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:45 |
|-----|----|--|--|----|----|------------------|
| S57 | 0 | S56 and (surface with contaminat\$4 with deposit\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:31 |
| S58 | 8 | S56 and (contaminat\$4 with deposit\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:31 |
| S59 | 0 | S56 and (((vapor or gas) near3 generat\$4) with (disassociat\$4 or dissociat\$4) with (condens\$4 with surface)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:32 |
| S60 | 0 | S56 and ((gas near3 generat\$4) with (focus\$3 near3 (electron adj1 beam))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:32 |
| S61 | 8 | S56 and (plasma adj2 (chamber or generat\$4)) and (reactive adj1 gas) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:33 |
| S62 | 22 | S56 and ((borohydride with vapor\$5) or (decaborane or (octa adj2 decaborane))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:35 |

| | | • | • | , | | |
|-----|---|--|--|----|----|------------------|
| S63 | 9 | S56 and ((borohydride with vapor\$5) or (decaboL31 and L32rane or (octa adj2 decaborane))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:35 |
| S64 | 8 | S62 and S61 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:36 |
| S65 | 0 | S56 and ((fluorine or halogen) with (disassociat\$4 or dissociat\$4) with (condens\$4 with surface)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:36 |
| S66 | 8 | S62 and (reactive adj2 (gas or vapor)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:37 |
| S67 | 0 | S56 and (clean\$4 with surface with contaminat\$4 with condensat\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:37 |
| S68 | 0 | S56 and (clean\$4 with surface with (contaminat\$4 or condensat\$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:38 |
| S69 | 0 | S56 and (aluminum with surface with (contaminat\$4 or condensat\$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:38 |

| | | | | - | 1 | |
|-----|-----|--|--|----|-----|------------------|
| S70 | 9 | S56 and ((mass adj2 (analyzer or analysis)) with implant\$5) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:39 |
| S71 | 8 | S70 and (monitor\$4 with cleaning with (reactive adj1 gas)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:39 |
| S72 | 8 | S56 and (monitor\$4 with cleaning with (reactive adj1 gas)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:41 |
| S73 | 0 | S56 and ((end adj1 point) with detect\$4 with (chemical adj1 analysis)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:41 |
| S74 | 22 | S56 and (temperature with (detect\$4 or sens\$4)) and (heat\$4 with condensat\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:43 |
| S75 | 14 | \$56 and (implant\$5 with target) and (arsen\$4 or phosphorus or antimony or silicon or germanium) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 09:44 |
| S76 | 4 | ((ionization or ion) adj1 chamber) and (high adj1 voltage) and inlet and (extraction with aperture) and (vacuum adj1 (system or housing)).clm. | US-PGPUB | OR | ON | 2008/02/29 09:47 |
| S77 | 267 | (315/111.91).OCLS. | US-PGPUB; USPAT | OR | OFF | 2008/02/29 09:47 |
| S78 | 22 | S33 and ((ionization or ion) adj1 chamber) and (high adj1 voltage) and inlet and (extraction with aperture) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:53 |

| | | LAST Scaron mistory | (111111 | , | | |
|-----|----|--|--------------------|----|----|------------------|
| S79 | 16 | S78 and (surface with (contaminat\$4 or deposit\$4)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:50 |
| S80 | 12 | "6135128".pn. or "6259105".pn. or "6894245".pn. or "5294797".pn. or "20060237663".pn. "20050178975".pn. or "4105916".pn. or "6818909".pn. or "6686601".pn. or "20070137671".pn. or "20070119546".pn. or "20070085021".pn. | US-PGPUB; USPAT | OR | ON | 2008/02/29 13:08 |
| S81 | 3 | S80 and ((ionization or ion) adj1 chamber) and (high adj1 voltage) and inlet and (extraction with aperture) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:29 |
| S82 | 13 | S34 and (surface with (contaminat\$4 or deposit\$4)) and (vacuum with housing with pump\$4) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:31 |
| S83 | 3 | S80 and (surface with (contaminat\$4 or deposit\$4)) and (vacuum with housing with pump\$4) | US-PGPUB; USPAT | OR | ON | 2008/02/29 10:01 |
| S84 | 0 | S81 and S83 | US-PGPUB; USPAT | OR | ON | 2008/02/29 09:55 |
| S85 | 5 | S80 and (reactive near3 gas) | US-PGPUB; USPAT | OR | ON | 2008/02/29 10:01 |
| S86 | 2 | S85 and S83 | US-PGPUB; USPAT | OR | ON | 2008/02/29 10:02 |
| S87 | 2 | "20070241689".pn. or "20070210260".pn. | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:14 |
| S88 | 1 | S80 and (vaporiz\$4 with solid) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:35 |
| S89 | 1 | "4105916".pn. | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:14 |
| S90 | 1 | \$89 and "25" and "26" | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:17 |
| S91 | 0 | S89 and (reactive near2 gas) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:18 |
| S92 | 0 | S89 and (reactive with gas) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:32 |
| S93 | 0 | S81 and (extraction near3 electrode) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:20 |
| S94 | 0 | S81 and (extraction with electrode) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:21 |
| S95 | 16 | S78 and (extraction with electrode) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:22 |
| S96 | 1 | S83 and (extraction with electrode) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:28 |
| S97 | 6 | S83 or S81 | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:28 |
| S98 | 1 | S97 and (extraction with electrode) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:28 |

| | | • | • | • | | |
|----------|--------|---|--|----|----|------------------|
| S99 | 3 | S97 and ((ionization or ion) adj1 chamber) and (high adj1 voltage) and inlet and (extraction with aperture) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:30 |
| S10 0 | 0 | S83 and ((ionization or ion) adj1 chamber) and (high adj1 voltage) and inlet and (extraction with aperture) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:30 |
| S10 1 | 3 | \$83 and (surface with (contaminat\$4 or deposit\$4)) and (vacuum with housing with pump\$4) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:35 |
| S10 2 | 786111 | S99 and (reactive with gas) or clean\$4 | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:32 |
| S10 3 | 0 | S99 and ((reactive or cleaning4) with gas) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:34 |
| S10 4 | 1 | S99 and (cleaning) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:33 |
| S10 5 | 0 | S104 and ((reactive or cleaning4) with gas) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:34 |
| S10 6 | 0 | S104 and ((reactive or cleaning) with gas) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:34 |
| S10 7 | 0 | S101 and (vaporiz\$4 with solid) | US-PGPUB; USPAT | OR | ON | 2008/02/29 12:35 |
| S10 8 | 0 | \$34 and ((ionization or ion) adj1 source) and (extraction with electrode) and ((electric adj1 heater) with (maintain\$4 near3 temperature)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 13:01 |
| S10 9 | 0 | S33 and ((ionization or ion) adj1 source) and (extraction with electrode) and ((electric adj1 heater) with (maintain\$4 near3 temperature)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 13:01 |
| S11 0 | 19 | S33 and ((ionization or ion) adj1 source) and (extraction with electrode) and (heater with (maintain\$4 near3 temperature)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 13:04 |
| S11 | 13 | S110 and ((vapor\$5 or vaporiz\$4) with condensation with temperature) | US-PGPUB; USPAT | OR | ON | 2008/02/29 13:04 |
| S11 2 | 27 | ((ionization or ion) adj1 source) and (extraction with electrode) and (heater with (maintain\$4 near3 temperature)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 13:09 |
| S11 3 | 20 | S112 and ((vapor\$5 or vaporiz\$4) with condensation with temperature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 13:06 |

| | | EAST Scaron mistory | (1101) | / | | |
|----------|----|---|--|----|----|------------------|
| S11 4 | 7 | S113 not S111 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 13:05 |
| S11 5 | 0 | S97 and ((vapor\$5 or vaporiz\$4) with condensation with temperature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 13:07 |
| S11 6 | 16 | S34 and ((vapor\$5 or vaporiz\$4) with condensation with temperature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 13:08 |
| S11 7 | 0 | S80 and ((vapor\$5 or vaporiz\$4) with condensation with temperature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 13:08 |
| S11 8 | 0 | S80 and ((vapor\$5 or vaporiz\$4) and (condensation with temperature)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 13:09 |
| S11 | 63 | S33 and (heater with (maintain\$4 near3 temperature)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 13:09 |
| S12 0 | 22 | S119 and ((vapor\$5 or vaporiz\$4) and (condensation with temperature)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 13:22 |
| S12 1 | 5 | "20020195950".pn. or "6441553".pn. or "6388263".pn. or "5747818".pn. or "4155008".pn. | US-PGPUB; USPAT | OR | ON | 2008/02/29 13:19 |
| S12 2 | 0 | S121 and ((ion adj1 source) with implant\$5) and ((extract\$4 near3 electrode) with (heater or heating) with (maintain near3 temperature)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 13:21 |
| S12 3 | 0 | S121 and ((ion adj1 source) with implant\$5) and ((extract\$4 near3 electrode) with (heater or heating) with maintain\$4 with temperature) | US-PGPUB; USPAT | OR | ON | 2008/02/29 13:19 |
| S12 4 | 0 | S121 and ((ion adj1 source) with implant\$5) and ((extract\$4 near3 electrode)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 13:19 |

4/22/10 6:44:35 PM H:\Workspaces\10-582392.wsp

| | | • | • | • | | |
|----------|------|--|--|----|----|------------------|
| S12 5 | 0 | S121 and ((ion adj1 source) and (extract\$4 near3 electrode)) | US-PGPUB; USPAT | OR | ON | 2008/02/29 13:19 |
| S12 6 | 6 | ((ion adj1 source) with implant\$5) and ((extract\$4 near3 electrode) with (heater or heating) with (maintain near3 temperature)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 13:21 |
| S12 7 | 6 | S126 and ((vapor\$5 or vaporiz\$4) and (condensation with temperature)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/02/29 13:22 |
| S12 8 | 1 | "2008087219".pn. or "4851668".pn. | US-PGPUB; USPAT | OR | ON | 2009/03/04 13:21 |
| S12 9 | 2 | "20080087219".pn. or "4851668".pn. | US-PGPUB; USPAT | OR | ON | 2009/03/04 13:22 |
| S13 2 | 2 | "20070241689".pn. or "20070210260".pn. | US-PGPUB; USPAT | OR | ON | 2009/03/04 13:26 |
| S13 3 | 3 | "20080087219".pn. or "20070170372".pn. or "4851668".pn. | US-PGPUB; USPAT | OR | ON | 2009/03/04 13:37 |
| S13 4 | 5 | S132 or S133 | US-PGPUB; USPAT | OR | ON | 2009/03/04 13:38 |
| S13 5 | 5724 | (250/423R,424-427,431,489,492.21,492.3, 493.1).cds. | US-PGPUB; USPAT | OR | ON | 2009/03/04 13:44 |
| S13 6 | 2667 | (315/111.01-111.91).ccls. | US-PGPUB; USPAT | OR | ON | 2009/03/04 13:44 |
| S13 7 | 7909 | S135 or S136 | US-PGPUB; USPAT | OR | ON | 2009/03/04 13:44 |
| S13 8 | 4 | S137 and ((ion adj1 (source or implant\$5)) and ((extract\$4 near3 electrode) with (heater or heating) with (maintain near3 temperature))) | US-PGPUB; USPAT | OR | ON | 2009/03/04 13:46 |
| S13 9 | 4 | S137 and ((ion adj1 (source or implant\$5)) and ((extract\$4 near3 electrode) with (heater or heating) with (condensation near3 temperature))) | US-PGPUB; USPAT | OR | ON | 2009/03/04 15:12 |
| S14 0 | 4 | S138 or S139 | US-PGPUB; USPAT | OR | ON | 2009/03/04 15:12 |
| S14 1 | 67 | ((ionization or ion) adj1 (source or chamber)) and (high adj1 voltage) and inlet and (extraction with aperture) and (vacuum adj1 (system or housing)) | US-PGPUB; USPAT | OR | ON | 2009/03/04 15:19 |

| | | EAST Scaron mistory | • | , | | |
|----------|---|---|--|----|----|------------------|
| S14 2 | 6 | S141 and ((extract\$4 near3 electrode) with (heater or heating) with (condensation near3 temperature)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/04 15:20 |
| S14 3 | 3 | S141 and ((extract\$4 near3 electrode) with (heater or heating) with (condensation near3 temperature)).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/04 15:21 |
| S14 4 | 1 | "20060272775".pn. | US-PGPUB; USPAT | OR | ON | 2009/03/04 15:28 |
| S14 5 | 1 | "20080121811".pn. | US-PGPUB; USPAT | OR | ON | 2009/03/04 15:29 |
| S14 6 | 0 | S145 and ((extract\$4 near3 electrode) with (heater or heating) with (condensation near3 temperature)).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/04 15:29 |
| S14 7 | 1 | S145 and ((extract\$4 near3 electrode) with (heater or heating) with (condensation near3 temperature)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/04 15:30 |
| S14 8 | 0 | S145 and ((extract\$4 near3 electrode) with (heater or heating) with (condensation near3 temperature)).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/04 15:30 |
| S14 9 | 7 | S141 and ((reactive adj1 gas) with clean\$4) and (remov\$4 with deposit with surface) | US-PGPUB; USPAT | OR | ON | 2009/03/04 15:36 |
| S15 0 | 1 | "5466941".pn. | US-PGPUB; USPAT | OR | ON | 2009/09/30 11:27 |
| S15 1 | 0 | S150 and (reactive with clean\$4) | US-PGPUB; USPAT | OR | ON | 2009/09/30 11:28 |
| S15 2 | 0 | S150 and (clean\$4) | US-PGPUB; USPAT | OR | ON | 2009/09/30 11:28 |
| S15 3 | 1 | S150 and (extract\$4 near4 electrode) | US-PGPUB; USPAT | OR | ON | 2009/09/30 11:29 |
| S15 4 | 1 | S150 and (extract\$4 near4 aperture) | US-PGPUB; USPAT | OR | ON | 2009/09/30 11:30 |

| | | • | • | - | | |
|----------|---|--|--------------------|----|----|------------------|
| S15 5 | 0 | S150 and ((extract\$4 near4 electrode) with temperature) | US-PGPUB; USPAT | OR | ON | 2009/09/30 11:34 |
| S15 6 | 0 | S150 and (extract\$4 with temperature) | US-PGPUB; USPAT | OR | ON | 2009/09/30 11:34 |
| S15 7 | 1 | S150 and (extract\$4 with heater) | US-PGPUB; USPAT | OR | ON | 2009/09/30 11:36 |
| S15 8 | 1 | S150 and ("12" or "18") | US-PGPUB; USPAT | OR | ON | 2009/09/30 11:37 |
| S15 9 | 6 | "4450031".pn. or "4697069".pn. or "6391148".pn. or "6670623".pn. or "6033973".pn. or "20050242293".pn. | US-PGPUB; USPAT | OR | ON | 2009/09/30 11:46 |
| S16 0 | 7 | S150 or S159 | US-PGPUB; USPAT | OR | ON | 2009/09/30 11:47 |
| S16 1 | 1 | S160 and ((ion adj1 source) with (extract\$4 near4 electrode) with temperature) | US-PGPUB; USPAT | OR | ON | 2009/09/30 11:47 |
| S16 2 | 5 | S160 and (aluminum or molybdenum) | US-PGPUB; USPAT | OR | ON | 2009/09/30 11:58 |
| S16 3 | 3 | S160 and (ion with implant\$5) | US-PGPUB; USPAT | OR | ON | 2009/09/30 14:44 |
| S16 4 | 1 | S160 and (cesium) | US-PGPUB; USPAT | OR | ON | 2009/09/30 15:27 |
| S16 5 | 0 | S163 and (cesium) | US-PGPUB; USPAT | OR | ON | 2009/09/30 15:28 |
| S16 6 | 3 | S160 and (aluminum) | US-PGPUB; USPAT | OR | ON | 2009/09/30 15:37 |
| S16 7 | 0 | S160 and (radiative near3 heater) | US-PGPUB; USPAT | OR | ON | 2009/09/30 15:44 |
| S16 8 | 1 | S150 and (heater) | US-PGPUB; USPAT | OR | ON | 2009/09/30 15:47 |
| S16 9 | 2 | S150 or "20050242293".pn. | US-PGPUB; USPAT | OR | ON | 2009/09/30 15:50 |
| S17 0 | 1 | S169 and (heater) | US-PGPUB; USPAT | OR | ON | 2009/09/30 15:50 |
| S17 | 8 | S150 or S159 or "7531819".pn. | US-PGPUB; USPAT | OR | ON | 2009/09/30 16:20 |
| S17 2 | 0 | S171 and (clean\$4 with ((discontinu\$4 or stop\$4 or de-energiz\$4) near3 source)) | US-PGPUB; USPAT | OR | ON | 2009/09/30 16:26 |